



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number: SA03674AT

This certificate issued to:

Premier Aircraft Service
5540 NW 23rd Ave, Hangar 14
Ft. Lauderdale, FL 33309

Certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 23 of the Federal Aviation Regulations.

Original Product – Type Certificate Number: A47CE, Revision 9

Make: Diamond Aircraft Industries GmbH

Model: DA 40 (excludes DA 40F)

Description of Type Design Change: This STC approves the installation of a Seamech International, R-134a coolant air conditioner system in a Diamond DA 40 (commonly: DA 40-180) aircraft in accordance with DER Services, Inc. Master Document List (MDL) report number 2006-020-1, Revision H, dated August 18, 2011, or later FAA approved revision. See Limitations and Conditions section.

Limitations and Conditions:

1. FAA-approved Airplane Flight Manual Supplement (AFMS), AFM2006-020-1, Initial Release, dated February 27, 2009, or later FAA-Approved revision, is a required document for operation of this modification. For aircraft complying with the STC amendment of September 29, 2017, or later, FAA-approved Airplane Flight Manual Supplement (AFMS), AFM2006-020-1, Revision B, dated September 29, 2017, or later FAA-Approved revision is a required document for operation of this modification.

(See Continuation on Page 2)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, and revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of Application: March 05, 2007

Date Reissued: April 14, 2009, September 22, 2011

Date of Issuance: March 12, 2009

Date Amended: September 16, 2011, September 29, 2017

By Direction of the Administrator

Signature _____

Title (for) Christina M. Underwood, Manager
Atlanta Aircraft Certification Office

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



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INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Aircraft Certification Office of the transfer of this Supplemental Type Certificate. The FAA will reissue the certificate in the name of the transferee and forward it to him.

Transfer Endorsement

Transfer the ownership of Supplemental Type Certificate Number: SA03674AT

To (Name and address of transferee)

From (Name and address of grantor)

Extent of Authority (if licensing agreement):

Date of transfer:

Signature of grantor: _____

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2. FAA Accepted Instructions for Continued Airworthiness (ICA) with FAA Approved Airworthiness Limitations Section (ALS) Seamech International report ASI-772216A, Revision G, dated August 9, 2011, or later FAA approved revision, is a required part of this STC.
3. This STC, amended September 16, 2011, or later, when installed in accordance with DER Services, Inc. Master Document List (MDL) report number 2006-020-1, Revision H, dated August 18, 2011, or later FAA approved revisions, applies only to aircraft modified subsequent to the amendment date of September 16, 2011. Aircraft complying with the STC amendment of September 16, 2011, or later, are not subject to Airworthiness Directives applicable to this STC that were installed in accordance with MDL 2006-020-1, Revision C, dated February 27, 2009, through Revision F, dated July 6, 2010.
4. Aircraft complying with the STC amendment of September 29, 2017, or later, will be installed in accordance with MDL 2006-020-1, Revision L, dated May 31, 2017. The Touch Screen is no longer available from the vendor for the air conditioner installation. The September 29, 2017 STC amendment removes the "touch screen" control panel for the air conditioner and replaces the touch screen with new manual switches and controls in the same location as the former touch screen control panel.
5. The compatibility of this design change with other previously approved modification(s) must be determined by the installer.
6. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

Certification Basis:

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for the Diamond DA 40 aircraft changed by this STC is:

- a. The type certification basis for parts **not changed** or **not affected** by the change is shown on Type Certificate Data Sheet (TCDS) A47CE for Diamond DA 40 airplane.
- b. The certification basis for parts **changed** or **affected** by the change since the reference date of application, March 5, 2007, is based upon part 23 as amended by amendment 23-45 and are determined to be the following:

14 CFR Part 23 Regulations

Regulations at the latest amendment 23-0 through 23-59

23.603(a)(b)(c), 23.605(a), 23.613(a)(b)(c), 23.1301(a)(b)(c)(d), 23.1309(a)(b), 23.1357(a)(b)(c)(d)(e), 23.1365(a)-(f), 23.1367(a)(b)(c)(d), 23.1529, 23.1557(a)(b)(c)

Regulations at an intermediate amendment

None

Regulations at the amendment level in TCDS A47CE

None

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